## ISSUE SLIP STAPLE AREA (for additional cross references)

| POSITION                  | NITIALS | ID NO. | DATE    |
|---------------------------|---------|--------|---------|
| FEE DETERMINATION         | V/W/2   |        | 12-03-0 |
| O.I.P.E. CLASSIFIER       |         |        | ,       |
| FORMALITY REVIEW          | AG      | 640    | 4-31-02 |
| RESPONSE FORMALITY REVIEW | ,,0     |        |         |

## **INDEX OF CLAIMS**

| ~ | Rejected                   | N   | Non-elected  |
|---|----------------------------|-----|--------------|
| = | Allowed                    | - 1 | Interference |
|   | (Through numeral) Canceled | Α   | Appeal       |
| ÷ | Restricted                 | 0   | Objected     |

|                   |          |           |         |              |   |          |              |           |          |          | ••••     |          |              |      |               |            |              |              |   |              |          | U            |          |          |              |           |   |               |            |          |  |                               |                |  |              |          |                    |          |   |
|-------------------|----------|-----------|---------|--------------|---|----------|--------------|-----------|----------|----------|----------|----------|--------------|------|---------------|------------|--------------|--------------|---|--------------|----------|--------------|----------|----------|--------------|-----------|---|---------------|------------|----------|--|-------------------------------|----------------|--|--------------|----------|--------------------|----------|---|
| Claim             |          |           | _       | <u> </u>     |   | D        | ate          | _         |          | _        |          |          |              |      | Cla           | iim        |              |              |   |              | Da       | te           |          |          |              |           |   | Cla           | aim        |          |  |                               | Dε             | ite  | _            |          |                    |          | ] |
| 펺                 | 6        | 3         | V٠      | 0            |   |          |              |           |          |          |          | ŀ        |              | - [  |               | 귤          |              |              |   |              |          |              |          | l        |              |           |   |               | <u></u>    |          |  |                               |                |  |              |          |                    |          | 1 |
| Final<br>Original | 'n       | 3         | 1       | Š            |   |          |              |           |          |          |          |          |              |      | Final         | g Original | ŀ            |              |   |              | ĺ        | 1            |          |          |              |           |   | Final         | Original   |          |  |                               | 1              | 1  |              |          |                    |          |   |
|                   | Ý        | 7         | 4       | ,            | _ | ╀        | +            | 4         | _        | L        | ļ.,      | +-       | 4            | -    | 叿             | 0          |              | _            | _ | ┡            | ╀        | ├-           | _        | ⊢        | $\vdash$     | Ш         |   | II.           | 의          | -        | +                                      | +-                            | +              | 4-   | ╄-           | ╄        | ╄                  | _        | Į |
| U                 | •        | ¥.        | 1       | 4            | _ | ╀        | +            | -         |          | <u> </u> | ╀        | +        | 4            | -    |               |            | $\dashv$     | _            | _ | ├            | ╀        | ╀            | -        | ⊢        | ├            | $\vdash$  |   | $\vdash$      | 101        | +        | +                                      | +                             | +              | ┼  | ╀            | ╀        | $\vdash$           | _        | Į |
| 3                 | H        | +         | 4       | Н            | _ | ╀        | +            | -         |          | -        | ╁        | ╁        | 4            | ŀ    |               | 52<br>53   | $\dashv$     | _            |   | -            | ┼        | -            | ╀╌       | -        | -            |           |   | $\vdash$      | 102        | +        | +                                      | +-                            | ╀              | ╀  | +-           | ╀        | +                  |          | ł |
| 4                 | H        | 4         | +       | Н            |   | ╀        | +            | $\dashv$  |          | -        | ╀        | +        | 4            | ł    |               | 54         |              |              |   | ┢            | ╁        | ┰            | -        | -        | ┢            | $\vdash$  |   | -             | 104        | +        | +                                      | ╄                             | ╁              | ╀  | ╄            | ╀        | +                  | _        | ł |
| 5                 | ۲        | +         | +       | Н            | _ | ╁        | +            | ┪         |          | H        | ╁        | ╁        | 1            | ŀ    | _             | 55         | Ŧ            |              |   |              | -        | ╁╌           | ┢╌       | ┢        | ╁            | Н         |   |               | 105        | +        | +                                      | +                             | ╁              | ╁╌   | ╁╌           | ╁        | ╁╌                 | _        | ł |
| 6                 | +        | H         | Н       | Н            |   | ╁        | +            | +         | _        | H        | +        | 十        | 1            | ł    |               | 56         | t            | 7            |   | $\vdash$     | +        | H            | ┢        | H        | H            | Н         |   | -             | 106        | +        | +                                      | ╁╌                            | ╁              | ╁─   | +-           | +        | ╁                  |          | ł |
| 7                 | 1        | 1         | Ħ       | Н            |   | t        | $\dagger$    | 7         |          | T        | 1        | $t^-$    | 1            | ı    |               | 57         | _            | $\dashv$     |   | T            | l        | t            | T        | T        | $\vdash$     | Н         |   | $\vdash$      | 107        | $\top$   | $\top$                                 | +                             | T              | 1  | †-           | t        | $\vdash$           | _        | 1 |
| (3)               | 1        | 1         | ۲       | П            | _ | T        | +            | 7         | _        | Т        | T        | 1        | 1            | ľ    |               | 58         | T            |              |   | Г            | T        |              | <u> </u> | T        | $\vdash$     | П         |   |               | 108        | 1        | $\top$                                 | T                             | T              | T  | T            | T        | $\top$             |          | ١ |
| 9                 | 7        | 1         | T       | П            |   | Г        | T            | 7         |          | Γ        | T        | Τ        | 1            | - [  |               | 59         |              |              |   | Г            |          |              | Ī        |          |              | П         |   |               | 109        | 1        | $\top$                                 | 1                             | T              | Т  | T            |          |                    |          | 1 |
| 10                | T        | T         | T       | ٦            |   | Γ        |              |           |          |          |          |          | ]            |      |               | 60         |              |              |   |              |          |              |          |          |              |           |   |               | 110        |          | Τ                                      |                               |                |  |              |          |                    |          | 1 |
| 11                | I        | I         | Ι       | I            |   |          |              |           |          |          |          |          | ]            |      |               | 61         |              |              |   |              |          | I            |          |          |              |           |   | $\overline{}$ | 111        |          | L                                      |                               |                |  |              |          |                    |          | ] |
| 12                | Д        | I         | Ĺ       | _[           |   | Ĺ        | Ĺ            | $\perp$   |          | Ĺ        | Ĺ        |          |              |      |               | 62         | $\perp$      |              |   | L            | L        | L            | L        | L        | $oxed{\Box}$ | Ш         |   | $\Box$        | 112        | _        | ┸                                      | $\perp$                       | L              | L  | L            | Ĺ        | $\Box$             |          |   |
| 13                | Ц        | 1         | 1       | _            |   | L        | L            | _[        |          | L        | L        | ↓_       | 1            | 1    | _             | 63         | _            | _            |   | <u> </u>     | _        | <u> </u>     |          | <u> </u> | Ц            | Ш         |   | L             | 113        |          | 1                                      |                               | L              |  | 1            | <u> </u> | $\perp \downarrow$ |          |   |
| : 14              | Н        | 1         | +       | 4            |   | ┡        | +            | 4         |          | <u> </u> | $\vdash$ | 1        | -            | -    |               | 64         | 4            | _            |   | <u> </u>     | -        | $\vdash$     | L        | $\vdash$ | Ц            | Щ         |   | <u></u>       | 114        | +        | $\perp$                                | $\perp$                       | $\vdash$       | $\vdash$   | $\vdash$     | ┞-       | $\vdash$           |          | 1 |
| 15                | Н        | +         | +       | 4            | _ | 1        | +            | 4         |          | _        | 1        | ╄        | 4            | -    |               | 65         | +            | 4            |   | -            | ├-       | -            | -        | <u> </u> | _            | Н         |   | $\vdash$      | 115        | +        | +                                      | +-                            | 1              | +-   | $\vdash$     | $\vdash$ | Н                  |          | 1 |
| . 16<br>17        | Н        | +         | +       | -#           |   | $\vdash$ | +            | +         |          | $\vdash$ | $\vdash$ | ╀        | -            | }    |               | 66<br>67   | $\dashv$     | $\dashv$     |   | $\vdash$     | -        | ⊢            | -        | <u> </u> | <u> </u>     | $\vdash$  |   |               | 116<br>117 | +        | +                                      | +                             | ╁              | +  | $\vdash$     | $\vdash$ | $\vdash$           |          | ł |
| (18)              | H        | +         | +       | ╢            |   | $\vdash$ | +            | +         | -        | -        | ╀        | ╀        | 1            | ŀ    |               | 68         | +            | $\dashv$     |   | $\vdash$     | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$ | $\vdash$     | $\dashv$  |   | <u> </u>      | 118        | +        | +                                      | +                             | +              | +-   | +-           | ├-       | ╁╌┤                |          | 1 |
| 19                | H        | +         | $^{+}$  | ╢            |   | -        | +            | +         |          | $\vdash$ | +        | +        | $\mathbf{f}$ | ŀ    | -             | 69         | $\dashv$     | $\dashv$     |   |              | -        | $\vdash$     | $\vdash$ | _        | H            | $\vdash$  |   | $\vdash$      | 119        | +        | +                                      | +                             | +              | ├-   | +            | ╁        | $\vdash$           |          | 1 |
| 20                | Н        | +         | ╁       | ╫            |   | ┝        | ╁            | +         |          | -        | H        | ╁        |              | ŀ    |               | 70         | ╅            | -            |   | ├            | ┢        | <del> </del> | -        |          | H            | $\dashv$  |   | H             | 120        | +        | ╁                                      | ╁                             | ┢              |  | ╁            | ├        | $\vdash$           | _        | 1 |
| 21                | Н        | +         | ╀       | H            |   | ┝        | +            | +         | -        | H        | $\vdash$ | ╁        | ┨            | ŀ    |               | 71         | -            | -            |   | <del> </del> | ├        | ┢            | -        | -        | Н            | $\dashv$  |   | -             | 121        | +        | ╫                                      | +                             | ╁              | ╀  | +            | ⊢        | Н                  | _        | ł |
| 22                | Н        | ł         | ╁       | Н            |   | ┢        | +            | +         |          | -        | ╁        | +-       | 1            | •  - |               | 72         | +            | $\dashv$     |   | $\vdash$     | $\vdash$ |              | H        | _        | Н            | $\dashv$  |   | $\vdash$      | 122        | +        | +                                      | +                             | $\vdash$       | ╁╾   | ╁╌           | -        | Н                  |          |   |
| 23                | ╁┤       | +         | +       | Н            |   | ┢        | 十            | +         | -        | -        | ╁╴       | ┢        | 1            | ŀ    |               | 73         | $\dashv$     | 7            |   |              | ┢        | $\vdash$     | ┢        | _        | H            | $\dashv$  |   |               | 123        | +        | +                                      | +                             | t              | H  | ╁┈           | -        | +                  |          | ĺ |
| 24                | H        | 7         | t       | H            | _ | T        | $^{\dagger}$ | 7         | $\neg$   | ┢        | T        | $t^-$    | 1            | Ì    |               | 74         | 十            | ┪            |   | _            |          | _            | _        |          |              | $\exists$ |   |               | 124        | $\top$   | +                                      | T                             | T              | T  | t            | ┢        | H                  |          | ĺ |
| 25                | П        | 1         | T       | П            |   | T        | Ť            | 1         |          |          | T        | t        | 1            | ľ    |               | 75         | 7            | T            |   |              | ┪        | _            | _        |          | П            | $\neg$    |   | _             | 125        | 十        | 1                                      | 1                             |                | T  |              | Г        | H                  | _        |   |
| 26                | П        | 1         | T       | П            |   | Γ        | T            | T         |          |          |          | T        | 1            | Ī    |               | 76         | $\neg$       |              |   |              | Г        |              |          |          |              | $\neg$    |   |               | 126        |          | 1                                      | 1                             |                |  |              | Г        |                    |          |   |
| 26<br>27          | П        | 1         | П       |              |   |          |              |           |          |          |          |          | ]            |      |               | 77         |              |              |   |              |          |              |          |          |              |           |   |               | 127        |          |  | Г                             |                |  |              |          |                    |          | İ |
| 28                | П        |           | Ц       |              |   | L        | L            |           |          |          |          |          | ]            |      |               | 78         | $\perp$      |              |   |              | _        | _            |          |          | Ш            | _         |   |               | 128        | ┸        | $\perp$                                |                               |                |  |              |          | Ш                  |          |   |
|                   | V        | <u> 1</u> | Ľ       | 4            |   | L        | ┸            | 4         | _        |          | L        | <u> </u> |              |      |               | 79         | _            | $\downarrow$ |   |              |          | _            |          |          |              |           |   | -             | 129        | $\perp$  | $\perp$                                | ┸                             | $oxed{oxed}$   |  |              | L        | Ш                  |          |   |
| 30                | _        |           | L       | 4            |   | L        | 1            | 4         |          |          | L        | ┖        | 1            | L    |               | 80         | 4            | 4            |   |              | _        | _            |          |          | _            |           |   | _             | 130        | $\bot$   | _                                      | $oldsymbol{oldsymbol{\perp}}$ | ╙              | <u> </u>   | ┡            | L        | Ш                  |          | ļ |
| 31                | 4        |           | Ļ       | 4            |   | L        | $\perp$      | 4         |          |          | L        | ļ_       | 1            | ļ    |               | 81         | +            | 4            |   | _            | L        | ┡            | _        |          |              |           |   |               | 131        | 4        | +                                      | +                             | _              | ļ  | L            | <u> </u> | Ш                  |          |   |
| 32                | $\dashv$ |           | ╀       | 4            |   | ├-       | ╀            | +         |          | _        | ├-       | ┿        | 4            | ŀ    |               | 82<br>83   | +            | $\dashv$     |   |              | ┝        | ┝            |          |          | Н            | {         |   | -             | 132        | +-       | +-                                     |                               | ├              | -  | -            | -        | $\vdash$           |          |   |
| 34                | -        |           | ╁       | +            |   | -        | +            | +         | -        |          | +-       | $\vdash$ | 1            | H    |               | 84         | +            | $\dashv$     |   |              | $\vdash$ | $\vdash$     | -        | _        | Н            | $\dashv$  |   |               | 133<br>134 | +-       | +-                                     | +                             | $\vdash$       | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash$           |          |   |
| 35                | $\dashv$ |           | +       | +            |   | $\vdash$ | +            | +         | ᅱ        | -        | -        | +        | 1            | ŀ    |               | 85         | +            | $\dashv$     | - |              | $\vdash$ | $\vdash$     | H        |          | $\vdash$     | $\dashv$  |   |               | 135        | +-       | ╁                                      | +                             | $\vdash$       | $\vdash$   | $\vdash$     | -        | H                  |          |   |
| 36                | -        | -         | t       | +            |   | $\vdash$ | +            | +         | $\dashv$ | -        | -        | $\vdash$ | 1            | ŀ    |               | 86         | $\dagger$    | $\dashv$     |   | _            |          |              |          |          | $\vdash$     | $\dashv$  |   |               | 136        | $\dashv$ | +                                      | +                             | <del>  -</del> | <del>                                     </del> | <del> </del> | -        | ++                 | -        |   |
| 37                | ᅥ        | _         | t       | 1            | _ | 1        | +            | +         |          |          | T        | T        | 1            | t    |               | 87         | $\dagger$    | $\dashv$     |   | _            | _        |              |          |          | Н            | $\dashv$  |   |               | 137        | +        | $\dagger$                              | 1                             | T              | <del>                                     </del> | <b>†</b>     | <u> </u> | $\vdash$           | -        |   |
| 38                | $\dashv$ | _         | T       | 7            | _ | Г        | T            | $\dagger$ | _        | Г        | $\vdash$ | T        | 1            | İ    |               | 88         | T            | $\dashv$     |   |              |          | Г            | Г        |          |              | $\neg$    |   | -             | 138        | $\top$   | $\top$                                 | 1                             |                | Т  | $\vdash$     | _        | П                  |          |   |
| 39                | 一        |           | T       | 7            | _ |          | 1            | 1         |          |          |          | Г        | 1            |      | $\rightarrow$ | 89         |              |              |   |              |          |              |          |          |              | $\Box$    |   | _             | 139        |          | $\top$                                 |                               |                | Г  |              |          | Ħ                  |          |   |
| 40                | $\neg$   |           | Γ       | 7            |   | Γ        | Τ            | 1         |          | Π        |          | Γ        |              | Γ    |               | 90         | T            | T            |   |              |          |              |          |          |              |           |   |               | 140        | T        | T                                      | T                             |                |  | Π            |          | П                  |          |   |
| 41                |          |           | T       | ╗            |   |          | T            | $\top$    | $\Box$   |          | Γ        |          | 1            |      |               | 91         | T            |              |   |              |          |              |          |          |              |           |   |               | 141        |          |  |                               |                |  |              |          | П                  |          |   |
| 42                |          | _         | Ι       | J            | _ |          | Ι            | 1         |          |          |          |          | ]            |      |               | 92         |              | ╛            |   |              |          |              |          |          |              |           |   |               | 142        |          |  |                               | Γ              |  |              |          |                    |          |   |
| 43                |          |           | I       |              |   |          | I            |           |          |          |          |          |              |      |               | 93         |              |              |   |              |          |              |          |          |              |           |   |               | 143        | Ι        | I                                      |                               |                |  |              |          | П                  |          |   |
| 44                |          |           | Ĺ       | Ī            |   |          | L            |           |          |          |          |          |              |      |               | 94         | $oxed{\int}$ |              |   |              |          |              |          |          |              | $\Box$    |   |               | 144        |          |  |                               |                |  |              |          |                    |          |   |
| 45                |          |           | Ĺ       | _[           |   | L        | L            | $\perp$   |          |          |          | $\Box$   | 1            |      |               | 95         | $\perp$      | $\Box$       |   |              |          | L            |          |          |              |           |   | _             | 145        | $\perp$  | 丰                                      |                               | Ĺ              | $\Box$   |              |          | П                  |          | l |
| 46                | _        |           | Ļ       | $\downarrow$ |   | 1_       | 1            | 4         | _        | L        | $\vdash$ | 1        | 1            |      |               | 96         | $\downarrow$ | _            |   |              |          | L            | <u> </u> | _        | Ц            | $\perp$   |   |               | 146        | $\perp$  | $\perp$                                | 1                             | _              | L  |              | _        | Ш                  | _        |   |
| 47                | _        |           | Ļ       | 4            |   | L        | Ļ            | 4         |          | L        | L        | _        | 1            | Ļ    |               | 97         | 4            | 4            |   |              | L.       | L            | L        |          | Ц            | _         |   |               | 147        | 4        | $\perp$                                | _                             |                | <u> </u>   | _            |          | Ш                  | _        |   |
| 48                | _        |           | $\perp$ | 4            |   | ⊢        | ╀            | 4         |          | ┡        | $\vdash$ | _        | -            | ŀ    |               | 98         | 4            | 4            |   |              | H        | _            |          | _        |              | 4         | C |               | 148<br>\S  | +        |  | 1                             | _              | _  |              | _        | $\sqcup$           | _        |   |
| 49                | -        |           | ╀       | 4            |   | ⊢        | +            | +         | _        | ⊢        | ⊢        | -        | -            | -    |               | 99         | +            | $\dashv$     |   |              | H        | -            |          |          |              |           | 4 |               | 169        | 4        | A١                                     | $\forall \prime$              | M              |  | A F          | 21       | E                  | _        | _ |
| 50                | _ !      | _         | 1_      | _            |   | L        |              |           |          | _        |          |          | J            | L    |               | 100        | L_           | L            |   |              | Ц        |              |          | !        |              |           |   | Ш             | 150        |          | ــَـــــــــــــــــــــــــــــــــــ | ٿ                             |                | _  |              |          |                    | $\dashv$ | ن |

If more than 150 claims or 10 actions staple additional sheet here